

COLLECTIONS SUMMARY FOR

MAKUA MILITARY RESERVATION, HAWAII

U.S. Army NAGPRA Compliance Project, Technical Report No. 95









Prepared for the U.S. Army Environmental Center, Environmental Compliance Division

by the
U.S. Army Corps of Engineers,
St. Louis District,
Mandatory Center of Expertise for the Curation and Management
of Archaeological Collections

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The U.S. Army Environmental Center tasked the Mandatory Center of Expertise for the Curation and Management of Archaeological Collections (MCX) with the job of assisting the Army with complying with the Native American Graves Protection and Repatriation Act (NAGPRA), P.L.101-601. The MCX was asked to locate and assess archaeological collections derived from Army lands, to identify the Native American or Native Hawaiian organizations culturally affiliated with the collections, and to draft Section 6 Summary letters for each installation. A two-stage process was used to identify, locate, and assess the contents of the collections, consisting of archival research and telephone interviews with the repository personnel. This report conveys the results of the collection research completed for compliance with Section 6 of NAGPRA.

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AN ARCHAEOLOGICAL COLLECTIONS SUMMARY FOR MAKUA MILITARY RESERVATION, HAWAII

Information Provided for Compliance with the Native American Graves Protection and Repatriation Act Section 6 Summary

Prepared for the U.S. Army Environmental Center, Environmental Compliance Division Aberdeen Proving Ground, Maryland

By
U.S. Army Corps of Engineers,
St. Louis District,
Mandatory Center of Expertise for the
Curation and Management of Archaeological Collections,
U.S. Army NAGPRA Compliance Project,
Technical Report No. 95

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CONTENTS

1	OBJECTIV	VES AND METHODS1			
2	RESEARC	H RESULTS	2		
	Archaeolog	gical Investigations at Makua Military Reservation	2		
	Summary o	of Archaeological Collections	2		
	References	to Archaeological Investigations	3		
	Cultural O	verview of the Region	3		
3	SECTION	6 COMPLIANCE	6		
4	REFEREN	CES CITED	7		
APP	ENDIX I	DRAFT SECTION 6 SUMMARY LETTERS	8		
APP	ENDIX II	NATIVE HAWAIIAN POINTS OF CONTACT	14		
APP.	ENDIX III	SUMMARY OF CURRENT LOCATIONS OF COLLECTIONS FROM MAKUA MILITARY RESERVATION	15		
APP	ENDIX IV	MCX LIST OF REFERENCES	18		

OBJECTIVES AND METHODS

The U.S. Army Environmental Center (AEC) tasked the Mandatory Center of Expertise for the Curation and Management of Archaeological Collections (MCX) with the job of assisting Army installation personnel in complying with the requirements of the Native American Graves Protection and Repatriation Act (P.L. 101-601, NAGPRA). The MCX was asked to locate and assess archaeological collections derived from Army-owned lands, to identify the Native Hawaiian organizations most likely culturally affiliated with the collections, to draft Section 6 Summary letters for each installation, and to conduct physical inventories of any collections that contain human skeletal remains. This report conveys the results of the collections research completed to assist Makua Military Reservation in complying with the Section 6 Summary requirements of NAGPRA.

The MCX used a two-stage process to identify, locate, and assess the contents of archaeological collections from the installation. First, archival research was performed to review all archaeological site records and reports for the installation. Second, telephone interviews were conducted with personnel at installations, universities, museums, and archaeological contractors that were identified during the archival research as possible repositories of Army collections. The MCX did not physically verify the existence of collections and, as such, the information contained in this report is based on background record reviews and information obtained via telephone interviews with the aforementioned installation personnel and institution professionals.

Archival research for Makua Military Reservation began with a search of the National Archeological Data Base (NADB) for references pertaining to the installation. This was followed by a thorough examination of all archaeological site forms and a literature review of all pertinent archaeological reports and manuscripts on file at the Department of Land and Natural Resources, State Historic Preservation Division, Honolulu; the Bernice Pauahi Bishop Museum, Honolulu; and the U.S. Army Corps of Engineers, Pacific Ocean Division, Fort Shafter, Hawaii. The records search was performed at the above repositories in September of 1995 and sought to identify any work on the installation that may have produced archaeological collections.

Subsequent telephone interviews to potential collections repositories ascertained whether the materials were present and the range of objects in each collection. Draft Section 6 Summary letters are enclosed (Appendix I), as well as a listing of the Native Hawaiian organizations that should be contacted and their points of contact (Appendix II).

RESEARCH RESULTS

ARCHAEOLOGICAL INVESTIGATIONS AT MAKUA MILITARY RESERVATION

A number of archaeological investigations have been conducted at Makua Military Reservation, beginning in 1977 and continuing to the present. Seven organizations have been identified as having conducted archaeological work at the installation. These organizations are:

Bernice Pauahi Bishop Museum, Honolulu, Hawaii,

BioSystems Analysis, Inc., Kailua, Hawaii,

Cultural Surveys Hawaii, Kailua, Hawaii,

Department of Land and Natural Resources, Division of State Parks, Honolulu, Hawaii,

Hawaii Marine Research, Inc., Hawaii (now defunct),

Ogden Environmental and Energy Services, Honolulu, Hawaii, and

U.S. Army Corps of Engineers, Pacific Ocean Division, Honolulu, Hawaii.

Investigations have primarily consisted of systematic surveys and testing activities. Archaeological sites types have included prehistoric and historic agricultural, livestock, military structures, and other remains. To date, only work performed by BioSystems Analysis, Inc. and Ogden Environmental and Energy Services has resulted in the collection of artifacts or other materials. As of the date of this report, Ogden's project at Makua Military Reservation is ongoing.

SUMMARY OF ARCHAEOLOGICAL COLLECTIONS

A total of approximately 4 ft³ of archaeological materials has been identified for Makua Military Reservation. Materials include basalt flakes and tools, volcanic glass, coral, shell, mammal and fish bones, *kukui* nut fragments, charcoal and soil samples, and historic metal and bottle glass. As of the date of this report, the collections are reportedly located at the following repositories:

BioSystems Analysis, Inc., Kailua ~1 ft³
Ogden Environmental and Energy Services, Honolulu ~3 ft³

The attached Summary of Current Locations of Archaeological Collections from Makua Military Reservation (Appendix III) provides more detailed information about each collection derived as a result of archaeological investigations at the installation. A collection consists of all of the materials, artifacts and associated documentation (e.g., field notes, maps, photos, data

analyses, correspondence), produced as a result of an archaeological investigation or project at a single site or multiple sites. In some cases, the same archaeological site may have been investigated by various individuals or organizations. Depending on where the resulting collections are curated, they may be stored and identified as separate collections or separate components of a single collection. In cases where the artifacts and records have become separated, we list the records collections repository as well.

Every attempt has been made to locate all collections cited on available archaeological site records or in published and unpublished references to archaeological investigations on the installation.

NAGPRA-Related Materials

No sacred objects, funerary objects, or human skeletal remains were identified in a thorough review of archaeological records, associated literature, and telephone interviews. The final determination of sacred objects or objects of cultural patrimony among the Makua Military Reservation collections may be established upon further consultation with Native Hawaiian organizations according to the definitions and restrictions specified in NAGPRA.

REFERENCES TO ARCHAEOLOGICAL INVESTIGATIONS

Appendix IV contains a list of references reviewed by the MCX during its archival research. No references were found for Makua Military Reservation in a search of the National Archeological Database (NADB).

CULTURAL OVERVIEW OF THE REGION

Hawaii is among some thirty-eight major archipelagos and islands referred to as Polynesia (Kirch 1984:19). Archaeological evidence suggests that the Hawaiian islands have been inhabited by humans for the past 1,600 years. The apparent area of origin of these first Hawaiian inhabitants was in central East Polynesia, probably the Marquesas Islands. Information regarding early Hawaiian society is sketchy, however, it is believed that it must have been like that of the Ancestral Polynesians, who had a chiefdom based on corporate descent groups (Eidsness 1995:8).

European contact with Native Hawaiians commenced with the arrival of British Captain James Cook in 1778. At this time, each of the eight islands that comprise Hawaii were under separate rule. Hawaiian society was hierarchically organized, with several grades of chiefs (ali'i) and land managers (konohiki) over a large class of commoners (maka'ainana). Social

organization was closely tied to land use, which involved a tiered system of land divisions. Whole islands or parts of islands constituted independent chiefdoms (moku) controlled by high chiefs. The moku were divided into a large number of wedge-shaped sections (ahupua'a) controlled by lesser-chiefs. Within the ahupua'a were smaller sections held and worked by extended households or groups of commoners (Kirch 1985:2; MacKenzie 1991:3).

Contact with the Europeans brought significant changes in both the Hawaiian land tenure system and Hawaiian social structure. In 1795, King Kamehameha I brought all of the islands, with the exception of Kauai, under his control. Although Kamehameha did not make substantial alterations in land tenure, his rule provided a new administrative level for the islands. Kamehameha also initiated relationships with Europeans and Americans which intensified throughout the nineteenth century (MacKenzie 1991:5).

The Constitution of 1840, which established a governmental structure for the kingdom and formally declared that the land belonged to the chiefs and people, with the king as trustee for all, attempted to deal with conflicts over land that began to arise between Hawaiians and foreigners. The demand for change in the land tenure system resulted in the Great Mahele of 1848, which divided the kingdom into thirds: one-third to the Hawaiian government, one-third to the chiefs, and one-third to the commoners who worked the land. In 1850, legislation was passed that allowed Westerners to own and convey land (MacKenzie 1991:5-9).

By the late nineteenth century, Westerners owned large plantations on most of the islands and had gained significant economic and political power in the kingdom. The struggle to control land in the islands eventually resulted in the overthrow of the Hawaiian monarchy in 1893, when the U.S. minister to Hawaii, John Stevens, ordered U.S. naval forces to land in Hawaii in support of white settlers. The provisional government, and later the Republic of Hawaii, designated the Crown and government lands as its public lands. When the United States annexed the Republic of Hawaii in 1898, the revolutionary government ceded these public lands to the federal government (Parker 1989:135). When Hawaii was admitted to the Union as a state in 1959, the federal government relinquished title of the former Crown and Government lands to the state, although certain lands set aside through an act of congress, executive order, presidential proclamation, or gubernatorial proclamation remained the property of the United States. Congress passed legislation allowing these "retained" lands to be returned to the state when they are declared unnecessary to federal needs (MacKenzie 1991:18).

Makua Military Reservation is located in the Makua Valley on the west, or leeward, coast of Oahu. According to a map of pre-Mahele *moku* and *ahupua'a* prepared by the Hawaiian Studies Institute (1987), the installation appears to fall within the boundaries of the Waianae District (or *moku*) and the three *ahupua'a* of Keawaula, Kahanahaiki, and Makua. The Waianae District in general is believed to have been an important area during Hawaiian prehistory, due to its abundant marine resources and based on the number of traditional accounts relating to the area. Additionally, the large beach which fronts Makua Ahupua'a was reportedly a focal point of fishing activities within the area (Hammatt *et al.* 1986:19-20).

Early historical accounts of the vicinity indicate that fishing remained the primary activity in the region until the mid-1800s. During the Great Mahele, Makua Valley had some fourteen land claims totaling 111.4 acres, with the remainder of the land going to the government. By the late eighteenth century, ranching was the primary focus within the Makua Military Reservation area and continued until the Army takeover of the area in 1941 (Hammatt *et al.* 1986:21-22).

SECTION 6 COMPLIANCE

P.L. 101-601 (NAGPRA) requires that federal agencies engage in active consultation with Native Hawaiian organizations regarding archaeological collections from the installation. Enclosed are draft NAGPRA Section 6 Summary letters (Appendix I) and a list of points of contact at three Native Hawaiian organizations (Appendix II).

Two state-wide organizations are identified in NAGPRA (Sections 2.6 and 2.12) and must be contacted: the Office of Hawaiian Affairs, which was established by the constitution of the state of Hawaii; and Hui Malama I Na Kupuna O Hawai'i Nei, the non-profit, Native Hawaiian organization incorporated by the state to provide guidance and expertise in decisions dealing with Native Hawaiian cultural issues, particularly burial issues. Additionally, the Departmental Consulting Archeologist of the National Park Service recommends contacting the relevant island burial council (National Park Service 1993).

Although only the above mentioned organizations are identified in Appendix II, there may be other Native Hawaiian organizations or individuals that particular installations should contact regarding NAGPRA issues. The statutory definition (Section 2.11) should be used to identify any other Native Hawaiian organizations:

"Native Hawaiian organization" means any organization which:

- (A) serves and represents the interests of Native Hawaiians;
- (B) has as a primary and stated purpose the provision of services to Native Hawaiians, and
- (C) has expertise in Native Hawaiian Affairs.

Additionally, the term "Native Hawaiian" is defined as "any individual who is a descendant of the aboriginal people who, prior to 1778, occupied and exercised sovereignty in the area that now constitutes the State of Hawaii" (Section 2.10).

Refer to 43 CRF Part 10 for the implementing regulations for NAGPRA.

REFERENCES CITED

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1995 Historic Preservation Plan for Pohakuloa Training Area, Island of Hawai'i, Hawaii (Draft). Prepared by Pacific Legacy, Inc., Aptos, California, for U.S. Army Engineer District, Honolulu.

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Hawaiian Studies Institute

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1991 Native Hawaiian Lands and Sovereignty: Historical Background. In *Native Hawaiian Rights Handbook*, edited by Melody Kapilialoha MacKenzie, pp. 3-25. Native Hawaiian Legal Corporation, Honolulu.

National Park Service

1993 List of Tribal, Native Alaskan Entities, and Native Hawaiian Organization Contacts. Memorandum to Interested Parties, July 16, 1993. Archeological Assistance Division, National Park Service.

Parker, Linda S.

1989 Native American Estate: The Struggle Over Indian and Hawaiian Lands. University of Hawaii Press, Honolulu.

APPENDIX I

DRAFT SECTION 6 SUMMARY LETTERS

[Installation Header]

Mr. Kunani Nihipali, President Hui Malama I Na Kupuna O Hawai'i Nei P.O. Box 190 Haleiwa, HI 96712-0190

Dear Mr. Nihipali:

I am writing to inform you of collections held by Makua Military Reservation that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Makua Military Reservation has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

Makua Military Reservation is responsible for approximately 4 ft³ of collections reportedly housed at two repositories in Hawaii. These archaeological collections were generated during investigations conducted at the installation between 1992 and the present. Materials include basalt flakes and tools, volcanic glass, coral, shell, mammal and fish bones, kukui nut fragments, charcoal and soil samples, and historic metal and bottle glass. No human skeletal remains or associated funerary objects were identified in our review of the collection documentation.

In accordance with Sections 6 and 2.11 of the statute, we are inviting you to consult with us regarding these archaeological collections. We are also notifying the Office of Hawaiian Affairs and the Oahu Burial Committee. Upon your written request, we will provide you access to review our records, catalogues, relevant studies, or other pertinent data for the purpose of determining the geographic origin, cultural affiliation, and basic facts surrounding acquisition and accession of these collections.

Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].

To facilitate discussions between Makua Military Reservation and Hui Malama I Na Kupuna O Hawai'i Nei on these matters, please forward the name and method of contacting your

organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF: USARPAC Commander U.S. Army Garrison, HI

ATTN: APVG-GWV (Mark Salley) Schofield Barracks, HI 96857-5000

USAEC Commander, U.S. Army Environmental Center

ATTN: SFIM-AEC-EC (Guldenzopf)

Aberdeen Proving Ground, MD 21010-5401

MCX Commander, U.S. Army Corps of Engineers

ATTN: CELMS-PD-C (Trimble)

1222 Spruce Street

St. Louis, MO 63103-2833

[Installation Header]

Ms. Linda Kawai'ono Delaney Land & Natural Resources Officer Office of Hawaiian Affairs 711 Kapiolani Blvd, Suite 500 Honolulu, HI 96613

Dear Ms. Delaney:

I am writing to inform you of collections held by Makua Military Reservation that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Makua Military Reservation has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

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In accordance with Sections 6 and 2.11 of the statute, we are inviting you to consult with us regarding these archaeological collections. We are also notifying Hui Malama I Na Kupuna O Hawai'i Nei and the Oahu Burial Committee. Upon your written request, we will provide you access to review our records, catalogues, relevant studies, or other pertinent data for the purpose of determining the geographic origin, cultural affiliation, and basic facts surrounding acquisition and accession of these collections.

Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].

To facilitate discussions between Makua Military Reservation and the Office of Hawaiian Affairs on these matters, please forward the name and method of contacting your organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF: USARPAC Commander U.S. Army Garrison, HI

ATTN: APVG-GWV (Mark Salley) Schofield Barracks, HI 96857-5000

USAEC Commander, U.S. Army Environmental Center

ATTN: SFIM-AEC-EC (Guldenzopf)

Aberdeen Proving Ground, MD 21010-5401

MCX Commander, U.S. Army Corps of Engineers

ATTN: CELMS-PD-C (Trimble)

1222 Spruce Street

St. Louis, MO 63103-2833

[Installation Header]

Ms. Phyllis Coochie Cayan, Chairperson Oahu Burial Committee 98-295 Ualo #X4 Aiea, HI 96701

Dear Ms. Cayan:

I am writing to inform you of collections held by Makua Military Reservation that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Makua Military Reservation has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

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In accordance with Sections 6 and 2.11 of the statute, we are inviting you to consult with us regarding these archaeological collections. We are also notifying the Office of Hawaiian Affairs and Hui Malama I Na Kupuna O Hawai'i Nei. Upon your written request, we will provide you access to review our records, catalogues, relevant studies, or other pertinent data for the purpose of determining the geographic origin, cultural affiliation, and basic facts surrounding acquisition and accession of these collections.

Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].

To facilitate discussions between Makua Military Reservation and the Oahu Burial Committee on these matters, please forward the name and method of contacting your organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF: USARPAC Commander U.S. Army Garrison, HI

ATTN: APVG-GWV (Mark Salley) Schofield Barracks, HI 96857-5000

USAEC Commander, U.S. Army Environmental Center

ATTN: SFIM-AEC-EC (Guldenzopf)

Aberdeen Proving Ground, MD 21010-5401

MCX Commander, U.S. Army Corps of Engineers

ATTN: CELMS-PD-C (Trimble)

1222 Spruce Street

St. Louis, MO 63103-2833

APPENDIX II

NATIVE HAWAIIAN POINTS OF CONTACT

Organizations Named in the Statute

Mr. Kunani Nihipali, President Hui Malama I Na Kupuna O Hawai'i Nei P.O. Box 190 Haleiwa, HI 96712-0190 808-637-6625

Ms. Linda Kawai'ono Delaney Land & Natural Resources Officer Office of Hawaiian Affairs 711 Kapiolani Blvd, Suite 500 Honolulu, HI 96613 808-586-3742 808-586-3799 FAX

Island Burial Council

Ms. Phyllis Coochie Cayan, Chairperson Oahu Burial Committee 98-295 Ualo #X4 Aiea, HI 96701 808-586-3167 808-586-3109 FAX

APPENDIX III

SUMMARY OF CURRENT LOCATIONS OF ARCHAEOLOGICAL COLLECTIONS FROM MAKUA MILITARY RESERVATION

All collections information has been entered into a Paradox data base file and can be queried by any of the fields listed below, as well as by the name of the installation and by MACOM. The data base will be delivered by the MCX to the U.S. Army Environmental Center upon completion of the U.S. Army NAGPRA Compliance Project. Inquiries for additional information are welcome (MCX: 314-331-8865; U.S. Army Environmental Center NAGPRA Compliance Project: 410-671-1573). The data fields listed in the summary of collections contain the following information:

REPOSITORY:

The current location in which the collection is stored, as

of the date of this report.

REPOSITORY POC:

The person contacted by the MCX, or the person to whom

inquiries regarding the collection should be addressed.

TELEPHONE:

The telephone number for the repository POC.

COLLECTION ID:

The identifying unit used by the repository to store and/or locate the collection. This can be a unique accession number assigned by the repository, the archaeological site number or project name, the name of the collector of the collection, or another number or name assigned by the

repository.

SITE NUMBERS:

The official site number or name only for those-sites from which materials were collected. An investigator may have performed work at additional sites but did not collect any materials. Those site numbers are not included in this field.

FIELDWORK DATES:

The date(s) during which the investigation(s) occurred. This information is provided to differentiate between projects that may have investigated the same site repeatedly.

EXCAVATOR/COLLECTOR: The individual and/or organization that conducted the investigation.

COLLECTION SIZE:

The volume or number of objects in a collection, estimated

by the repository POC or from project reports.

DESCRIPTION OF MATERIALS: General material classes of the objects in the collection derived from data provided on site records, in references, and/or by the Repository POC.

ANTIQUITY/ARCH. PERIOD: Chronological or cultural-historical designations recorded on site records or in references specific to the collection.

CULTURAL AFFILIATION: This column contains only those ethnic identifications found in the site records or references specific to the collection. This field is left blank if no such information was recorded.

BASIS OF DETERMINATION: Documents the source of the cultural affiliation information (e.g., site record, oral testimony, reference).

SECTION 5 MATERIALS: Describes the number and kind of human skeletal remains and associated funerary objects in the collection, as indicated by the site records, references, repository management documents, or information from repository POC. If these materials are present or are suspected to be present, NAGPRA Section 5 requires a physical inventory of the materials.

Summary of Current Location of Archaeological Collections

As of March 1996

Repository	Repository POC	Telephone	Collection ID	Site Numbers	Fieldwork Dates	Excavator/
Bio-Systems Analysis, Inc., Kailua, Hi	Frances Eble	(808) 261-4300	MK19 (3627-201)	4540, 4542, 4543, 4544	1992	Bio-Systems Inc., Kailua,
Ogden Environmental & Energy Services, Honolulu, Hi	Allan J. Schilz	(808) 545-2462	Makua Valley D.O. 32		1994 - Present	Ogden Enviro & Energy Ser Honolulu, Hi

ion of Archaeological Collections From: Makua Military Reservation, Hawali [PACCOM]

As of March 1996

Fieldwork Dates	Excavator/Collector	Collection Size	Description of Materials	Antiquity/Archaeological Period	Cultural Affiliation	Basis of Determination
1992	Bio-Systems Analysis, Inc., Kallua, HI	box)	Basalt Tools & Samples, Volcanic Glass, Coral, Shell, Mammal & Fish Bones, Kukui Nut Fragments, Ulu Maika, Charcoal & Soli Samples; Historic Metal & Bottle Glass	Prehistoric; Historic		
	Ogden Environmental & Energy Services, Honolulu, Hi	boxes); 2	Basalt Flakes, Basalt Adze Fragments, Ulu Maika Fragments, Volcanic Glass, Kukui Shell, Coral			

1CCOM]

of Materials	Antiquity/Archaeological Period	Cultural Affiliation	Basis of Determination	Section 5 Materials
oles, Volcanic Aammal & Fish agments, Ulu oil Samples; e Glass	Prehistoric; Historic			N
: Adze Fragments, s, Volcanic Glass,				N

APPENDIX IV

MCX LIST OF REFERENCES

In addition to the references reviewed by MCX personnel at the archaeological site information center, every attempt was made to obtain references cited but not on file. Information taken from these references was coded for data relating to collections made from sites located on installation property (see attached sample of PD-C Bibliographic Data Sheet form) and entered into a data base for ease of manipulation.

Report titles were drawn directly from the title page of reports, and consist of the following fields:

FIELD DATA ENTERED

Subject Property Army Installation name

Last Name Primary author's last name

First Name Primary author's first name

Middle Initial Primary author's middle initial

Secondary Authors Names of secondary authors, or in instances where the

author is a company rather than an individual, the company

name is listed here

Title of the reference. For letter reports, the person or

agency to whom the correspondence is addressed is listed

as the title.

Series If the report is part of a publication series, the name and

number are provided here.

Date of publication or submission

Length Report length in pages

Contract Number Contract number and delivery order number, if applicable

The data for the next three fields are drawn directly from the report title page and reflect the hierarchy of contracting agencies involved in accomplishing the work. In some cases, the sponsoring agency is listed as the Army installation; in others, the intermediary contracting agent, (e.g., the Army Corps of Engineers or the National Park Service) is listed as the Sponsoring Agency.

Sponsoring Agency Agency for which the report was prepared

Contractor The agent contracted to perform the work

Subcontractor The agent subcontracted to perform the work

The majority of the citations for archaeological investigations on Army land refer to unpublished reports prepared under contract with federal agencies, consequently the MCX printout was designed to address these reports. In instances where the author is a company rather than an individual, the company name is listed in the Secondary Authors field (due to the length of the field). For published references, the publisher is listed in the Sponsoring Agency field.

			Fieldwork
Page of			Page of
NADB No.		PD-C Coll	ection No.
	PD-C Bibliography	Data Sheet	
Date:	Informati	on obtained by:	
PD-C Project:			
Subject Prope	rty:		
Repository (name and l	ocation):		
Record Collection Nam	e/Number:		, .
Report Date and Length	h (in pages):		
Author(s):			
Title:			
Contractor/Address or I	Publisher/Address (city, state):		
Subcontractor/Address	(city, state):		
Report Series and Num	ber:		
Contract/Purchase Ord	er Number(s):		-
Sponsoring Agency/Add	dress:		
Project Name and Loca	ttion:		
Principal Inve	estigator(s)/Director(s):		
Fieldwork Da	tes:		
Type of Invest	tigation (e.g., survey, testing,	mitigation):	
CELMS Form 810	Previous Editions of This	Form Obsolete	CELMS-PD-C

CELMS Form 810 Feb. 1995

PD-C Bibliography Data Sheet (continued)

Site Numbers:	
Archaeological Period (e.g., Hohokam, Mississippian):	
Material Classes (range):	
Artifact Collections and Locations:	
Approximate Size of Collections (e.g., number of objec	ts):
Record Collections and Locations:	
NAGPRA Materials (Check if present) Human Skeletal Remains	Human Skeletal Remains Data Sheet Number of Attached Sheets
Objects	
Associated Funerary Unassociated Funerary	Object Data Sheet Number of Attached Sheets
Sacred	
Cultural Patrimony	
Cultural Affiliation(s):	
Basis for Affiliation Determination (e.g., geographic lo-	cation, burial practices):
Comments:	

	2	
Subject property: Makua Milita	ry Reservation, HI	
Last name:	First name:	Middle Initial :
Secondary Authors: Ogden Env	rironmental and Energy Services Co., Inc.	
Title: Research Design-Intensiv Assault Course (CCAAC Valley, Island of Oahu	ve Archaeological Survey and Monitoring for Prope and Construction of a Fire Access Trail at the U.S.	osed Modification to the Company Combined S. Army Makua Military Reservation, Makua
Series:		
Date: 10/94	Length: Contract Number: DA	CA83-91-D-0025, Delivery Order 0032
Sponsoring Agency: US Army C	Corps of Engineers-Pacific Ocean Division, Fort Sh	after, HI
Contractor : Ogden Environment	al and Energy Services Co., Inc.	
Subcontractor:		
Subject property: Makua Milita	ry Reservation, HI	
Last name:	First name:	Middle Initial :
Secondary Authors: Waianae H	awaiian Civic Club (WHCC)	
Title: Waianae Historic Preserv	ation Plan	
Series:		
Date: 12/01/81	Length: 100 Contract Number:	
Sponsoring Agency: WHCC His	storic Preservation Committee	
Contractor: WHCC Historic Pre-	servation Committee	
Subcontractor:		
Subject property : Makua Milita	ry Decempation HI	
Last name : Carlson	First name : Ingrid	Middle Initial : K.
	orn, Frank Eble, Tom Jackson, and Marshall Weisl	ler
·	ssance Survey of Proposed Firebreak Road at Mak	
Series : J-3627-103		
Date: 03/93	Length: 30 Contract Number:	
Sponsoring Agency : US Army C	Corps of Engineers-Pacific Ocean Division, Fort Sh	nafter, HI
Contractor : BioSystems Analysi	s, Inc.	
Subcontractor:		

Subject property: Makua Milita	ry Reservation, HI		
Last name: Cox		First name: David	Middle Initial : W.
Secondary Authors:			
			·
Title: Trip Report for Field Rec Archaeological Resource	onnaissance to Mals.	kua Military Reservation, Makua Valley, Oaht	ı, to Investigate Possible
Series:			
Date: 11/22/83	Length: 8	Contract Number:	
Sponsoring Agency:	·	•	
Contractor:			
Subcontractor:		•	
Subject property: Makua Milita	ry Reservation, HI		
Last name: Eble		First name: Francis	Middle Initial :
Secondary Authors: Paul Clegh	orn and Thomas L.	Jackson	
Title: Archaeological Investiga (Draft).	tions at Proposed M	MK-19 Range, Makua Military Reservation, W	aianae District, Oʻahu, Hawaii.
Series : 627-201			·
Date : 05/93	Length: 150	Contract Number: DACA83-91-D-00	24, Delivery Order 002
Sponsoring Agency: US Army (Corps of Engineers-	Pacific Ocean Division, Fort Shafter, HI	
Contractor: BioSystems Analysi	is, Inc.		
Subcontractor:			
Subject property: Makua Milita	ary Reservation, HI		
Last name: Hammatt	-,,	First name: Hallett	Middle Initial : H.
Secondary Authors:			· -
,			
Title: Archaeological Reconna Oahu (Proposed Compan	issance of Four Tar y Combined Arms	get Areas, U.S. Army Makua Military Reserva Assault Course).	tion, Makua Valley, Waianae,
Series :			
Date : 09/86	Length: 18	Contract Number : DACA83-85-C-01	22
Sponsoring Agency: US Army (Corps of Engineers-	Pacific Ocean Division, Fort Shafter, HI	
Contractor: Cultural Surveys Ha	awaii		
Subcontractor:			

Subject property: Makua Military Reservation, HI Middle Initial: H. First name: Hallett Last name: Hammatt Secondary Authors: Douglas Borthwick and David Shideler Title: Archaeological Monitoring and Sampling for a Watermain Installation, 'Ohikilolo Valley, Wai'anae, O'ahu. Series: Contract Number: DACA83-87-M-0048 Date: 07/87 Length: Sponsoring Agency: US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI Contractor: Cultural Surveys Hawaii Subcontractor: Subject property: Makua Military Reservation, HI Middle Initial: H. First name: Hallett Last name: Hammatt Secondary Authors: Douglas Borthwick and David Shideler Title: Archaeological Subsurface Testing for a Four-Inch Watermain, Kea'au Beach Park to Makua Military Reservation, Wai'anae, O'ahu. Series: Contract Number: DACA83-85-C0122 Length: 119 Date: 07/86 Sponsoring Agency: US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI Contractor: Cultural Surveys Hawaii Subcontractor: Subject property: Makua Military Reservation, HI First name: Robert Middle Initial: J. Last name: Hommon Secondary Authors: Title: An Intensive Cultural Survey of Ukanipo Heiau and Kahanahaiki Terrace, Kahanahaiki, Makua Military Reservation, Series: Contract Number: DACW84-79-C-0012, Mod. NO. P00007 Date: 12/80 Length: 40 Sponsoring Agency: US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor: Hawaii Marine Research, Inc.

Subcontractor:

Subject property: Makua Milita	ry Reservation, HI	
Last name: Kelly	First name: Marion	Middle Initial :
Secondary Authors: Sidney Mi	chael Quintal	
Title: Cultural History Report of	of Makua Military Reservation and Vicinity,	, Makua Valley, Oahu, Hawaii.
Series:		
Date : 05/77	Length: 150 Contract Number	er : DACA84-76-C-0182
Sponsoring Agency: US Army (Corps of Engineers-Pacific Ocean Division, I	Fort Shafter, HI
Contractor: Deptartment of Anti	hropology, Bernice P. Bishop Museum	
Subcontractor:		
,		
Subject property: Makua Milita	ry Reservation, HI	
Last name: McAllister	First name: J.	Middle Initial: Gilbert
Secondary Authors:		
Title: Archaeology of Oahu		
Series : (1933) Bernice P. Bishop	Museum Bulletin 104; (1985) Kraus Reprir	nt .
Date: 1933, (1985)	Length: 213 Contract Number	er:
Sponsoring Agency: Bernice P.	Bishop Museum, Honolulu, HI	
Contractor:		
Subcontractor:		
Subject property: Makua Milita	ry Reservation, HI	·
Last name: Rosendahl	First name: Paul	Middle Initial :
Secondary Authors:		
Title: Archaeological Inventory Text	y and Evaluation Report for U.S. Army Supp	port Command, Hawaii (USASCH). Part I: Report
Series :		
Date: 03/77	Length: 106 Contract Number	er : DACA84-76-C-0175
Sponsoring Agency: US Army (Corps of Engineers-Pacific Ocean Division, I	Fort Shafter, HI
Contractor: Department of Anth	ropology, Bernice P. Bishop Museum	
Subcontractor:		

Subject property: Makua Military Reservation, HI Middle Initial: First name: Paul Last name: Rosendahl Secondary Authors: Title: Archaeological Inventory and Evaluation Report for U.S. Army Support Command, Hawaii (USASCH). Part II: Tables Series: Contract Number: DACA84-76-C-0175 Date: 03/77 Length: 57 Sponsoring Agency: US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI Contractor: Department of Anthropology, Bernice P. Bishop Museum Subcontractor: Subject property: Makua Military Reservation, HI First name: Elspeth Middle Initial: P. Last name: Sterling Secondary Authors: Catherine C. Summers Title: Sites of Oahu Series: Length: 352 Date: 10/78 Contract Number: Sponsoring Agency: Contractor: Department of Anthropology, Department of Education, Bernice P. Bishop Museum Subcontractor: Subject property: Makua Military Reservation, HI Middle Initial: K. First name: Farley Last name: Watanabe Secondary Authors: Title: Trip Report, Site Inspection of Two Proposed Dip Ponds for Firefighting, U.S. Army Makua Military Reservation (MMR), Waianae District, Oahu Island. Series: Contract Number: MIPR No. DPW-MIP-92-2055 dtd. 11/05/91 Date: 05/15/93 Length: 8 Sponsoring Agency: Contractor: US Army Corps of Engineers-Pacific Ocean Division

Subcontractor:

Subject property: Makua Military Reservation, FI

Last name: Yent

First name: Martha

Middle Initial:

Secondary Authors:

Title: Archaeological Monitoring of Makua Well Construction Project, Kaena Point State Park, Waianae, Oahu. Letter Report.

Series:

Date: 03/87

Length: 8

Contract Number:

Sponsoring Agency:

Contractor: Department of Land and Natural Resources, Division of State Parks, State of Hawaii

Subcontractor: